Did I convince you?

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The SCIENCE! of Icewings

icedragon4076

bookmark

0

CALL ME SUNRISE.

Guardian Herd
Warriors
Skyclan
Author who writes fanfics
Star Wars fan
proud cat owner!!

The SCIENCE! of Icewings

dragondrawing333

Ha Ha! We reached four pages!

1

SCIENTIST!!! (nickname)

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The SCIENCE! of Icewings

silverphoenix580

Oh..ok

0

Marine = Fangirl + Nerd

PercyJacksonForever

Fangirl + Nerd = *A Blue Banana*

šīñgülårįtÿ

star count: 1,822

~~Give up~~ **is** ***N0T*** a ***statement***

#cellosquad

The SCIENCE! of Icewings

dragondrawing333

Is noboby else excited abou that? No. Okay.

0

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The SCIENCE! of Icewings

vanilladragon282

I'm excited

1

~+Rexy+~

Queen of all things Jurassic Park and anime related
Status: Semi-Active

#RememberHurricane
#LGBTQ+
LunaStar, *Gulfstream*, *Violet* ***~Forum Sis***

OC's:

Aquila/Zeus
Crocodile
Python
Cactus
Kuchikori
Borealis
Prismatic
Souleater
Myscelia Ethusa
Mendica
Hornet

The SCIENCE! of Icewings

dragondrawing333

Sorry for the slow (AKA Non-existent) posting, iv'e been working on a special Christmas paper, it should be posted about two weeks before Christmas day, so i can still jump on the Christmas hype train, but not so close as to be crushed by said hype train.
I'll give you a preveiw for this paper.

Dashing through the snow,

At ----- times the speed of sound,

Through the fields we go,

Exploding all the way.

HA-HA-HA!

0

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The SCIENCE! of Icewings

dragondrawing333

@Rexy- I'm sorry! I completely missed your comment on *The Science!!! Of The Hulk*, if i did sneak a Hamilton reference in there, then it was completely unintentional, seeing as i haven't read the book, watched a play or a movie, or even read a paper on it.
Can you tell me the 'reference'?

0

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dragondrawing333

The Science!!! Of Jurassic Park

Um… I'm sorry Michael Crichton? But most of your dinosaurs are from the Cretaceous period, *NOT* the Jurassic period. The park should be called *Cretaceous Park*, but I guess that's not as catchy.

DESPITE (I'm grinding my teeth together) your scientific failure in the *classification* of your time periods, I'm willing to give you a second chance with Mr.DNA, or more accurately, the SCIENCE!!! He barfs onto the screen.

At the beginning of the original *Jurassic Park* movie (because I haven't read the book) Jon Hammond shows his guests a cartoonish DNA strand, fittingly named Mr. DNA, who informs them about how the park's scientists recreated dinosaurs.

If you've somehow not heard of this by now, then here's what you'll need to know. The Jurassic Park scientists extracted dinosaur blood from mosquitos fossilized in amber, and repaired any damage done to the DNA, by filling in missing strands with Frog DNA.

DNA, or deoxyribonucleic acid, is a molecule containing the chemicals Cytosine, Guanine, Adenine, and Thymine, that is present in nearly every living organism, functioning as the carrier of genetic information.

Now, I get to start poking holes in Michel Crichton's masterpiece. Fun.

The explanation given is pretty logical, right? WRONG!!!

Fossilized or not, neither blood nor DNA is going to last 100,000,000 years, due to *Half-life*. Half-life (Not the game) is the time required for something to lose half its initial value, DNA is estimated to have a half-life of 521 years, dinosaurs lived 191,938.5 years too early. We could still bring something like the Tasmanian tiger back to life, if we have a genetic sample, and real world scientists are currently trying to bring the wooly mammoth back to life.

But that's only one problem with this explanation, my next is the frog DNA substitute. Let's assume for a second that by the power invested in me as the author that some semi-complete DNA is found, now we have to fill in the missing genetic code with something. Why did Henry Wu, the lead scientist, a world rebound biologist, pick the frog DNA, instead of, say lizard DNA, or even better, bird DNA. Birds have a very similar genetic structure to that of a dinosaurs, in fact, it's believed that the T. Rex, whose name means 'Lizard King', is most closely related to the *modern day chicken*. Think about that while Prof. Grant and Co. are being chased by the big bad dinosaur.

Our last problem, is one that is heavily contested in our real world. Is it morally right to preform genetic experiments? It seems the scientists in *Jurassic Park*, And *Jurassic World* were too busy asking "Can we?" Rather than "Should we?" If we shrugged off all these moral dilemmas, then we would probably now have animal human hybrids, we would be able to clone people, and animals. But these issues are very important, and should be carefully thought over, is innovation more precious than the natural order of things?

I can't answer that for you.

Note- But I can tell you when each dinosaur did live (take notes Michael)

Brachiosaurus- Late Jurassic

Dilophosaurus- Early Jurassic

Gallimimus- Late Cretaceous

Parasaurolophus- Early Cretaceous

Triceratops- Late Cretaceous

T. rex- Late Cretaceous

Velociraptor- Late Cretaceous

I used to want to be a paleontologist, so I was pretty excited to write about this.

3

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The SCIENCE! of Icewings

vanilladragon282

@Science ...And don't even get me *started* on the inaccuracies within the movies, even disregarding whether we *could* or not. Velociraptors HAD feathers, and the T-Rex had at *least* a downy fuzz covering it! And they didn't fix it as time went on, movie *or* real life standpoint. From a JP-world standpoint, I would assume Jurrasic World and Jurrasic World: Fallen Kingdom take place the year they came out (2015 and 2018) so I *assume* that they would change it (AKA keep the original genes) to fit what they discovered, but *NO*, because "Bigger. Faster. More teeth." SAFETY AND ACCURACY!!! Y'know what I want more than a T-Rex? A fuzzy T-Rex. Side note, If the movies *were* accurate, I would *kill* for Blue with actually blue feathers. And when I was little, I also wanted to be a paleontologist.

1

~+Rexy+~

Queen of all things Jurassic Park and anime related
Status: Semi-Active

#RememberHurricane
#LGBTQ+
LunaStar, *Gulfstream*, *Violet* ~*Forum Sis*

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Hornet

The SCIENCE! of Icewings

dragonlynx3311

The SCIENCE!!! Of animus magic
Part 1: The Origin of animus magic

Ok,animi. How do I even explain How. hard. this. is.

First, when did the magic happen.
The earliest in wings of fire history we get is the prologue of Darkstalker, the only legends book so far.
That's set about 2000 years before the dragonet prophecy, and there are already animi.
In moon rising moon mentions that the scorching is 5012 years ago.
5012-2000= 3012
In darkness of dragons, webs mentions that it took 500 years to reform after the scorching (???)
3012-500=2512
ipso facto, there are 2512 years in which animus magic could have formed, if it didn't form in the scorching.

But we STILL don't know HOW the magic formed!
SCIENTIST!!!, I REALLY NEED YOUR INPUT ON THIS, I'M STUCK AND I REALLY NEED HELP!

☆ 2

#TheForumsNeedMoreMoonbli

#Qinterwatcher
#Clearmoonstalker
#Sunflightspeaker
Yeah, it's totally me... OR IS IT
<)Wilderness(>

ME CALM DOWN?! YOU NEED TO UN-CALM DOWN! YOU NEED TO RAMP ALL THE WAY UP TO FREAKING OUT RIGHT NOW!-kinkajou

The SCIENCE! of Icewings

dragondrawing333

Sorry man, I don't know anymore than you do. But personally, i think we're going to get a book dedicated to the Scorching, or at least some extra info on it. Checkove's gun and all.

2

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The SCIENCE! of Icewings

dragondrawing333

The reason i haven't cover Anumis magic, is because it seems to have no boundaries, it can do anything. Anything is possible, from making someone immortal, to turning every scavenger into a gold statue. There is no way to scientificaly explain the magic.

1

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The SCIENCE! of Icewings

vanilladragon282

...So. Ideas? ...Plant manipulation? Side note, I found where the plant-manipulation was in TLC, where Sundew was helping Luna and Blue escape the Flamesilk dungeon.

1

~+Rexy+~

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The SCIENCE! of Icewings

dragondrawing333

Thanks. I'll see what i can do.

0

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The SCIENCE! of Icewings

dragondrawing333

Hi guys. I'm really sorry, but i'm probably going to have to go on haiatus, at least until i find some new topics, right now, i'm completely out of them. This past week, iv'e reserched and tried to type *six,* yeah *six* different papers, before realising that it was way too complicated to relate it back to the book, it was really boring, or that it was just wrong. If i can write any other papers, i will post them, but for now, i have nothing more to give you. Though i will be posting *The Science!!! Of Santa Claus* on Monday December 10th.

☆ 2

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The SCIENCE! of Icewings

vanilladragon282

It's fine!

☆ 0

~+Rexy+~

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dragondrawing333

The Science!!! Of Moonwatcher

Moonwatcher, or just Moon, is a mine of interesting topics, from her mindreading abilities, to her prophesying, can you guess what topic I chose? I chose, her psychology.
Throughout *Moon Rising*, Moon's social anxiety is a debilitating ball and chain, dragging her down, at least until she throws it off at the end of the book. But the way she describes it to Sora,
"And then everyone was looking at me," Sora whispered. "Everyone was thinking about me and how awful I am and how much they hate me. They could see right through me, I know they could."
"No, Sora," Moon said, "They weren't, truly. Dragons think mostly about themselves. Everyone is so worried about what other dragons think of them, they hardly stop to decide what they think of everyone else. Believe me, no one is thinking about you as much as you think they are." She'd finally realized how reassuring that was. All her self-doubt and nerves and feeling like an outsider- once she paid attention to what she could hear around her, it turned out those were the things that made her the most normal.
(Tui T. Sutherland, 2015; 265, 266)
was almost a copy and pasted description of a real psychological phenomenon, called the *Spotlight Effect*.
The Spotlight Effect is an odd quirk of our psychology, it describes the tendency for a person to believe they are being noticed more than they actually are.
'The "spotlight effect" refers to the tendency to think that more people notice something about you than they do. Dozens of studies in social psychology have supported this phenomenon. In one test, some students wore bright yellow Barry Manilow t-shirts to a large introductory to psychology class. They then had them estimate how many people in the class they thought had noticed. They greatly overestimated.
So what explains the "spotlight effect?" Basically, it is the result of egocentrism. We all are the center of our own universes. This is not to say we are arrogant, or value ourselves more than others, but rather, that our entire existence is from our own experiences and perspective. And we use those experiences to evaluate the world around us, including other people. But other people not only lack the knowledge of, for instance, the stain that you have, but they are the center of their own universes too, and in turn, are focused on other things!' (Nathan A. Heflick Ph. D, 2011: Psychology Today)
It's the little details that astound me the most, I would never have guessed that Moon Rising's entire plot would revolve around a psychological effect that effects all of us. I think that's the beauty and appeal of Tui T. Sutherland's books, the settings, characters, and battles are fantastical, but their base conflicts are so relatable. In *The Dragonet Prophecy*, Caly's emotional conflict is, at its core is that he's not who he's supposed to be. In *The Lost Heir* Tsunami's conflict, is that she has to make a choice between her biological family, and her adopted family. I could go on, but I won't, because it would take me several hours to type.

Sorry it's so short, but i thought it was really intresting.

☆ 3

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The SCIENCE! of Icewings

vanilladragon282

See, this is what I appreciate about the books. Tui has CLEARLY done her research, and has science to back up most of the stuff in the books.

0

~+Rexy+~

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The SCIENCE! of Icewings

dragondrawing333

I know right? And i have to thank you Rexy, you've been very helpful, and very vocal on your thoughts. Okay, that's all the 'sincere thanks' nonsense out of the way, I have a more important question to ask, would you like me to post the Santa claus paper now, or on December 10? I'm getting really impatient to release it.

0

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dragondrawing333

The Science!!! Of Santa Claus

Dashing through the snow,
At 1,600 times the speed of sound,
Through the fields we go,
Exploding all the way.
HA-HA-HA!

Santa Claus, I don't think I need to explain who that is. You know, Elf-enslaver, sleigh driver, super spy, and master practitioner of breaking and entering. What old Saint Nick is probably best known for though, is his sleigh and reindeer, Dancer, Prancer, Dasher, Donner, Vixen, Comet, Cupid, Rudolph, and Blitzen.

I was thinking about what I'm going to be doing this Christmas, mostly hiding from my little brother, when I wondered "How fast would Santa Claus have to travel to bring presents to everybody?" And that's the kind of pointless, stupid question I answer in my free time, instead of going outside, or socializing.

Right out the gate I had a problem trying to find data for the amount of people who celebrate Christmas, or a form of Christmas, did you know there are 37 different versions of Santa from all over the world? So I had to just use America, so if you live *anywhere* else, then you *must* be on the naughty list.

Now I have to lay out the parameters, or the conditions, of our little thought experiment. In North America there are 323,130,000 people (As of a census in 2016) and for the purpose of our experiment, let's assume every single one of them believes in Santa, and is a perfect little angel (Ha-Ha.) The USA has a surface area of 3,718,948 Square miles, so if they all spread out evenly, there would be 86.8 people per square mile. That's a lot of people (Trust me, I quadruple checked.) I assumed that Santa has a maximum of 3 hours for America, leaving 9 hours for the rest of the world. Santa and his sleigh are invulnerable, and, reindeer can fly, that one's kinda important, but that's all you'll need to know for now.

The equation for speed is Speed = Distance/Time

So we put in our distance of 3,718,448 and divide it by 3 hours, which gives us… 1,239,482.6 Mph… That's all? Don't get me wrong, that's nothing to sneeze at, but it's not nearly as big as I thought it would be. That's still 1,614.3612 * the speed of sound, but I thought I'd be getting into numbers that would break my calculator, *like in The Science!!! Of The Hulk.*

I don't really know what to do now, I had my expectations *all* the way up there, so I feel kinda weird - **WAIT!** I forgot about Time Dilation and particle physics!

Time Dilation is a difference in time measured by two or more observers, due to a large gravitational force, or velocity. If I take two clocks, set at exactly the same time, and launch one into space, travelling at incredibly high speeds, and I leave the other here on Earth, then there is going to be a notable difference in their times. This happens because velocity, speed with direction, distorts and alters space and time. At the speed Santa's traveling, time around him starts to slow, it's not by a huge amount, only a few seconds of difference, but that's still a few seconds into the future.

This doesn't really apply here, seeing as in this experiment, Santa is invulnerable, but at the speeds Santa Claus would be reaching, the smallest grain of dust or tiny insect, would act like a *bullet*. This is a real danger astronauts and satellites face while in orbit, the ISS (International Space Station) travels at an average of 17,227 MPH, at these speeds a fleck of paint can pass through metal as if it were made of *butter!*

Santa is moving so fast that the air molecules in front of the sleigh don't have time to move out of the way, and thus become trapped. This would create a vacuum behind the sleigh, and the surrounding air would rush in to fill the empty space, producing a deafening crashing noise. Forget jingle bells, you would be lucky to escape an encounter with Santa with your sense of hearing intact.

In front of the sleigh, the trapped air molecules are forced so close together that they undergo *fusion*. Nuclear fusion is what occurs when two molecules crash into each other and release huge amounts of energy, to help you visualize this, nuclear fusion is what powered the bombs at Hiroshima and Nagasaki. Santa would be creating *nuclear explosions* wherever he went, that isn't snow you're shoveling out of your driveway, that's *radioactive fallout and cremated reindeer.*

And even if you *somehow* manage to avoid having your face melted off by the fires hot enough to melt rock, then you're still not safe. After The Fat man and Little boy, bombs were dropped on Hiroshima and Nagasaki, there were bodies discovered with no visible injuries, no lethal wounds. Upon testing, it was discovered that the intense… I was going to say sound, but at some point a wave of deadly pressure stops being a sound, and just starts being terrifying. Anyway, upon testing it was discovered the *shockwave alone* had killed them.

Christmas is NOT a time for joy and celebration, it's a time for hiding in fallout shelters, wearing military grade earplugs, and praying that you'll survive the night.

This is what I love doing in my free time: ruining your childhoods.

Just for fun, I'm going to figure out how much Santa's gift bag weighs. We're only going to be using North America again, more census data and such. I'm assuming each present is 7.5lbs. As stated above, there are 323,130,000 people in the US, so we just multiply 323,130,000 by our 7.5lbs of presents and we get a gift bag weighing- *2,423,475,000lbs! That's 274,832.7 African Elephants!* Santa has to be the human equivalent of a Greek *demigod*!

I wonder how he fits that bag down the chimneys?
Note- Can I just say how creepy Santa Claus is? Now that I'm older (AKA more cynical), and I can think about this jolly ninja rationally, he turns out to be… *Less* than a savory character. Let me lay this out for you, an old man, whose identity is hidden by a heavy winter coat and beard, sneaks into your house through your chimney, places boxes full of stuff under your Christmas tree, and steals your milk and cookies. Yeah, I'll just let that sink in for a moment. And that's not even mentioning that Saint Nick, was originally based off the Norse god of war and death, Odin. You're letting the god of *war and death* into your house, if you get a Seax or Hatchet this Christmas, then I told you so. (The whole 'being a Norse god' thing explains the 274,832.7 Elephants.)

☆ 2

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The SCIENCE! of Icewings

silverphoenix580

@Scientist is Maximum Ride possible...

☆ 1

Marine = Fangirl + Nerd

PercyJacksonForever
Fangirl + Nerd = *A Blue Banana*
~~š~~ī~~ñ~~g~~ü~~ł~~å~~ŕ~~ị~~t~~ÿ
star count: 1,822
~~Give up~~ **is** ***N0T*** a ***statement***
#cellosquad

The SCIENCE! of Icewings

dragondrawing333

When you say Maximum Ride, i assume you mean the human and animal hybrids, and if that is the case, then- Meh. Kinda. This sounds like a topic, if you don't mind waiting a while, i could write a full paper on it.

0

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The SCIENCE! of Icewings

silverphoenix580

Oh I don't mind at all...I also have a question about the keeper of the lost cities, but I can ask you later if you want...

1

Marine = Fangirl + Nerd

PercyJacksonForever

Fangirl + Nerd = *A Blue Banana*

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star count: 1,822
```

~~Give up~~ **is** ***N0T*** a ***statement***

#cellosquad

The SCIENCE! of Icewings

vanilladragon282

@Science OK, Santa is OFFICIALLY TERRIFYING!!!

0

~+Rexy+~

Queen of all things Jurassic Park and anime related
Status: Semi-Active

#RememberHurricane
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The SCIENCE! of Icewings

dragondrawing333

Rexy- You've got that right.
Marine- I haven't read Keeper of the lost cities. The Maximum Ride paper might take a little longer than expected to come out, not because i'm having difficulties with it, but because i'm worried that it's edging into inappropriate topics, and i'll have to go through a few more times and check that it's all apropriate. It's possible it won't come out at all, if it gets caught in the filter.

0

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The SCIENCE! of Icewings

dawnhaze118

How about 'The SCIENCE!!! Of The Fog Diver'? It's a book, and I like it, but I want to know if something similar could happen. Also, 'The SCIENCE!!! Of Wings Of Fire Anatomy' would be interesting. Sometimes authors get a little carried away with their made-up species, and I want to see how Tui did.

1

~Sorrel~

MISTAKES ARE PROOF THAT YOU ARE TRYING

#KevinTheButterfly

#RememberTheLost

#Colorless

IT DOES NOT MATTER HOW FAST YOU ARE GOING, AS LONG AS YOU DO NOT STOP

The SCIENCE! of Icewings

dragonlynx3311

So let me get this straight...

SANTA'S SCHEDULE- Christmas Eve

2:00 am

Tell slave drivers to give the elves a warning, then get back to bed

9:00 am

Get ready for battle arena fight

9:01

Fight all olympians put together...

9:02

...and Win.

10:00

Observe methods of medieval torture, using elves as testers.
Do this until

11:00 pm

Realise that there is a time difference between the North Pole and everywhere else

11:01

Decide to just break & enter just for fun

12:00

Come home and buy tickets for a holiday in the underworld

3

#TheForumsNeedMoreMoonbli

#Qinterwatcher
#Clearmoonstalker
#Sunflightspeaker
Yeah, it's totally me... OR IS IT
<)Wilderness(>

ME CALM DOWN?! YOU NEED TO UN-CALM DOWN! YOU NEED TO RAMP ALL THE WAY UP TO FREAKING OUT RIGHT NOW!-kinkajou

The SCIENCE! of Icewings

dragondrawing333

Wilderness- Uhhhhhhh. I think i'm missing something.
Sorrel- I haven't read The Fog Diver either, sorry to dissapoint. You're going to have to be a *little bit* more specific. What do you mean by 'anatomy'? That is a **massive** subject, and nearly as complicated of a subject, *if not more so*, than Quantum mechanics.

0

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The SCIENCE! of Icewings

dragondrawing333

Quick question, Do you guys think i should keep posting the papers on *The Science!!! of Icewings* thread, or should i start putting them into their own threads, like i did with *The Science!!! of Santa Claus*? I'm worried that almost nobody is reading to the end of this thread, while i don't do this for the attention (Though it's a nice bonus) these are *really* hard to produce, especially at the *rate* i produce them, I spend many, many hours, if not days, writing them, often working through the night and into the next day, and it's a gut punch when only one person, if any, see them.

☆ 0

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The SCIENCE! of Icewings

dragondrawing333

The Science!!! Of Maximum Ride

HI! It's me, **Austin!**

Haha! I got you guys. Ha.

The Maximum Ride books are… Complicated. And I have to admit, I took the backdoor this time, I used the Maximum Ride wiki, I don't have time to read all seven books. What? **THERE"S EIGHT BOOKS?!** Yeah. I stopped reading the Maximum Ride series after *Nevermore*, mainly because it was getting too complicated, and just plain weird, I had difficulty following all the separate story lines, and the dreams that aren't-but-actually are-kinda-dreams-but not really.

Wow. New record for the most procrastination I've done in one of my papers, I'm not even two hundred words into this paper and I'm **already** going off track, I better get to the actual topic. **Anyway**, Maximum Ride is a Human-Avian Hybrid created by an evil company called Itex, and is leader of a group of Avian-Human Hybrids called The Flock, for obvious reasons. The Flock consist of: Maximum Ride, Fang, Iggy, Nudge, Gazzy, Angel, and **Sigh** I guess Total too. *Maybe.*

These hybrids have a range of interesting powers and abilities I could cover, everything from superspeed, to camouflage, to mindcontrol powers. And while those would make awesome topics, and I might cover them eventually, there is something *far more interesting* that is the entire premise of the series. The mixing of human and animal genes, in such a way to produce someone or something viable.

The only exposition we get as to how the hybrids of Itex are created, is that they are born in test tubes. Though, this seems to be more of a joke, and not meant to be taken literally. We can't take anything the scientists say as true, they have proven themselves to be liars, cheaters, and just **terrible** people. We also know that everyone in the Flock, barring Total, seeing as he's a dog, is 98% Human and 2% Bird, I couldn't find anywhere stating what exact species they were, but this doesn't really matter all that much, as they're all just birds (I'm ignoring all the really weird powers and immortality and *whatever else* was in any books after *Saving the world and other extreme sports*, because the story went down the drain *really quickly* after that book.)

So how are the hybrids being created? I briefly considered that the scientists just grafted the wings onto them, like they did with the Erasers, before realizing that not only would the wings be the size of a small birds, and then remembering that, they also have increased senses, things occurring in the insides of their bodies, so it's not grafting.

What's far more likely, is that the Whitecoats (what the hybrids call the scientists) are using *CRISPR- Cas9*. CRISPR-Cas9, more commonly known as just CRISPR, is a DNA editing protein. CRISPR stands for 'clusters of regularly interspaced short palindromic repeats', and The Cas9 stands for an enzyme that removes foreign DNA. In four easy steps you can edit and-or, destroy any pesky, annoying DNA for the low price of sixty dollars.

In a study posted on the Harvard University website, titled *CRISPR: A game changing genetic engineering technique,* I learned of the four steps CRISPR uses to edit and destroy specific strands of DNA.

But before we get to how CRISPR works, I need to give you a brief course on the wonderful world of *Bacteriology* (Which *is* an actual word). Bacteriology is the study of bacteria, and is irrefutably the most important component in CRISPRs development.

I'm actually going to let Harvard speak for me here, cause I can't, for the life of me, write this next part correctly, I think I have like, writers block or something.

*'**What is CRISPR***

CRISPR is an acronym for Clustered Regularly Interspaced Short Palindromic Repeat. This name refers to the unique organization of short, partially palindromic repeated DNA sequences found in the genomes of bacteria and other microorganisms. While seemingly innocuous, CRISPR sequences are a crucial component of the immune systems [3] of these simple life forms. The immune system is responsible for protecting an organism's health and well-being. Just like us, bacterial cells can be invaded by viruses, which are small, infectious agents. If a viral infection threatens a bacterial cell, the CRISPR immune system can thwart the attack by destroying the genome of the invading virus [4].'

Sorry if you have to look up any of those words.

Okay. Now I can move onto the four steps outlined in the article.

1: A virus invades a bacterial cell

2: A new spacer (basically a mugshot of that type of virus) is derived from the virus and is integrated into the CRISPR sequence

3: CRISPR RNA is formed

4: CRISPR RNA guides molecular machinery to target and destroy the virus's genome

If you didn't understand that, **don't worry**, I've spent the last few days trying to wrap my head around this. That being said, you need to understand this to understand the last point, so if you didn't get it, go back and reread it until you do.

Scientists change a test subject's DNA VIA a process known as *gene silencing* and *gene editing*. In gene silencing, the scientists create their own CRISPR RNA, which matches the target DNA, then, like In step four, the CRISPR RNA guides molecular machinery to the target, and **destroys it!**... Sorry, I got a little over enthusiastic there. The CRISPR RNA just *damages* the target DNA enough so that it is disrupted by the errors created when the DNA attempts to repair itself. If the scientist is trying to *change* the DNA through the process of gene editing, the process up till the silencing will be the same, instead of letting the DNA incorrectly repair itself though, the scientists will apply a *repair template*. A repair template is just something that tells the DNA how to repair itself correctly, or in the case of our gene editing, how to repair itself to whatever the scientists want.

Good job! You just learned something in a few *minutes* what most college students take *years* to understand, and what is slowly driving me crazy! I started talking and muttering to myself whilst writing this, and thus far, nobody has talked back to me, *but* it's only a matter of time.

While this would be relatively expensive, I think Itex, which is a massive company, shipping everywhere, and dabbling in many different markets, would have the income to pay for this project.

-Special thanks to Marine for suggesting this topic-

SCIENTIST!!! **(nickname)**